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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/769,815	02/03/2004	Byung Hyun An	3449-0302P	9530
2292	7590	11/15/2006		EXAMINER
BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747				LESPERANCE, JEAN E
			ART UNIT	PAPER NUMBER
			2629	

DATE MAILED: 11/15/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/769,815	AN, BYUNG HYUN	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 03 February 2004.
- 2a) This action is FINAL.                            2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-25 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) 1,3-8,10-17 and 20-25 is/are allowed.
- 6) Claim(s) 2,9,18 and 19 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____.
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date _____.	6) <input type="checkbox"/> Other: _____.

## **DETAILED ACTION**

1. The application filed February 3, 2004 is presented for examination and claims 1-25 are pending.

### ***Claim Objections***

2. Claim 13 is objected to because of the following informalities: in line 3, after the "the comparator" there two comas and in line 5, after "the comparator" there is a coma before the period. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 112***

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 2 and 9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 2 recites the limitation "the comparison result and the comparator" in lines 6 and 8. There is insufficient antecedent basis for these limitations in the claim. Claim 9 recites the limitation "the monitor" in line 5. There is insufficient antecedent basis for this limitation in the claim.

### ***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 18 and 19 are rejected under 35 U.S.C. 102(b) as being unpatentable over US Patent # 5,545,105 ("Kim").

Regarding claim 18, Kim teaches a method for processing displayed data in a system having a computer for processing data (computer Fig.1 (11) and a display device with an amplifier for amplifying input signals from the computer (horizontal deflecting amplifier Fig.3 (34) and a controller (controller Fig.3 (31), the method comprising the steps of: processing and displaying data (display Fig.3 (37); determining whether the computer is off or frozen; if the computer is off or frozen, applying a storage command signal to the display device in order to save displayed data (method for saving power by sensing whether or not an input signal is entered, regardless of a main controller of a computer system and cutting off the power supplied to a monitor when the input signal is not entered within a set time period in a monitor for controlling a display function by the computer system (column 1, lines 51-56); and saving in a memory a storage section of an image signal set for a signal generated by the storage command signal and to a synchronizing signal (control means for controlling the power means to provide the operating voltage to the driving means and simultaneously setting the reference time value of the power saving mode in the memory means, in response to the power supply signal generated from the power supply signal generating means,

updating the reference time value stored in the memory means in response to the timer interrupt signal, and cutting off the operating voltage supplied to the driving means by controlling the power means when the reference time value stored in the memory means is a preset time value (column 2, lines 12-22)).

Regarding claim 19, Kim teaches when the data saved in the memory is restored, converting and displaying the data saved in the memory (The display unit 37 deflects the video signal in response to the outputs of the horizontal deflecting amplifier 34 and the vertical deflecting amplifier 35, and displays the video signal received from the video processor 33 on the display screen (column 7, lines 11-15)).

#### ***Allowable Subject Matter***

5. Claims 1, 3-8, 10-17, and 20-25 are allowed.
6. Claims 2 and 9 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
7. The following is an examiner's statement of reasons for allowance: the claimed invention is directed to an apparatus for processing displayed data.

Independent claim 1 identifies a uniquely distinct feature "a comparator for comparing the selection signal with the vertical synchronizing signal, each being outputted from the Micom, and outputting a storage related signal and a memory for saving an image signal corresponding to the storage related signal generated as an output signal from the comparator".

Independent claim 15 identifies a uniquely distinct feature "a comparator for

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comparing the selection signal with the synchronizing signal, each being outputted from the Micom, and outputting a storage related signal and a memory for saving an image signal corresponding to the storage related signal generated as an output signal from the comparator".

Independent claim 20 identifies a uniquely distinct feature "and in response to a selection signal generated by the storage command signal and a vertical synchronizing signal, said storage command signal being dependent on an operational state of the computer, storing an image signal displayed on the display device in a memory".

Independent claim 22 identifies a uniquely distinct feature "in response to a selection signal generated by the storage command signal and a vertical synchronizing signal in dependence of an operational state of the computer, storing an image signal displayed on the display device in a memory".

### **Conclusion**

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean Lesperance whose telephone number is (571) 272-7692. The examiner can normally be reached on from Monday to Friday between 10:00AM and 6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on (571) 272-7691.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

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Washington, D.C. 20231

**or faxed to:**

(571) 273-8300 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal  
drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or  
proceeding should be directed to the technology Center 2600 Customer Service Office  
whose telephone number is (703) 306-0377.

Jean Lesperance



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Date 11/9/2006



RICHARD HJERPE  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600